AMETROPROCTUS A NEW GENUS OF CHARASSOBATID MITES FROM THE UNITED STATES.. (ACARI: CRYPTOSTIGMATA: CHARASSOBATIDAE)

Harold G. Higgins¹ and Tyler A. Woolley²

Soil mites of the family Charassobatidae have been recorded previously from south and central America and New Zealand. In collections taken by the authors mainly in Utah and Colorado is a previously undescribed genus and species that is tentatively placed in this family. This new genus differs from other known charassobatids in having three claws and very large anal and genital apertures. It is placed in this family because of the large, projecting lamellae, the type of body setae, and the number of genital and anal setae. Limited collecting indicates that this new genus may be widespread in the mountains of western North America. A description of the genus and species follow below.

Ametroproctus n. gen. (Figs. 5, 6)

Lamellae large, extending over top of rostrum with a translamellae; lamellar and rostral hairs simple or feather-like; interlamellar hairs simple, small with tiny insertions; dorsosejugal suture distinct; dorsal setae small, inconspicuous, simple; sensillus clavate; large genital and anal apertures with four pairs of genital setae and two pairs of anal setae; legs heterotridactylus; hysterosoma tapered posteriorly; body covered with dense cerotegument. The generic name refers to the large anal aperture.

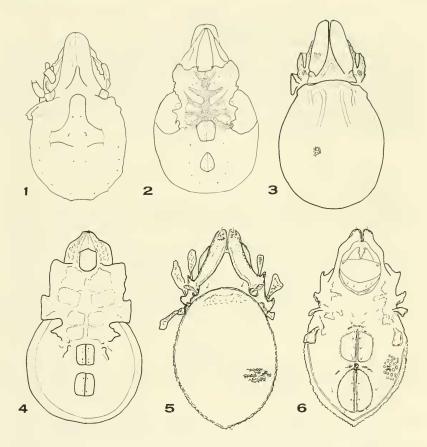
Ametroproctus oresbios n. sp.

Description: Propodosoma about as long as wide; rostrum rather blunt, not visible from above; rostral hairs fine, simple; lamellae large, covering most of propodosoma, projecting beyond rostral tip; lamellar hairs simple; interlamellar hairs simple, small with tiny insertions located near level of exobothridial hairs; pseudostigmata cup-like directed up and out; sensillus clavate with a narrow pedicle and expanded setose head; dorsosejugal suture distinct, arched.

Hysterosoma generally oblong in outline tapering toward the posterior end; surface covered with a heavy cerotegument that hides the dorsal setae; dorsal surface as shown in Fig. 5.

Camerostome egg-shaped; ventral setae and apodemata as shown in Fig. 6; genital opening large, each cover with four setae; anal

 ²⁹⁶⁵ South 14th East, Salt Lake City, Utah.
 Department of Zoology, Colorado State University, Fort Collins, Colorado.



Figs. 1-2. Charassobates cavernosus Grandjean, 1929. Figs. 3-4. Topalia problematica Balogh and Csiszar, 1963. Figs. 5-6. Ametroproctus oresbios n. gen., n. sp.

opening large, pear-shaped, located close to genital opening with two simple setae on each cover; internal preanal piece present; heavy sclerotized bar between genital and anal plates at level of preanal piece; ada_1 posterior to anal plate; ada_2 lateral near middle of genital plate; fissure iad near anterior end of anal plate below sclerotized band.

Legs heavy, shorter than body, each with three unequal claws.

Size: length 645μ ; hysterosoma 420μ ; width 390μ .

Locality: The type and four paratypes taken from moss at Alta, Utah, 2 Sept., 1954 by H. Higgins; 1 specimen from Diamond Fork Canyon, Utah 17 June 1965 by H. Higgins; 3 specimens from lichens and moss at Ward, Colorado, 13 Sept., 1958 by T. A. Woolley; 2 specimens from moss on Half Hill at Bellevue, Colorado, 4 August

1965 by T. A. Woolley; 1 specimen from Cle Elum, Washington, 19 August 1956 by H. and M. Higgins.

Discussion: The small sample of this new mite shows considerable variation in the size and length of the rostral and lamellar hairs, in the size and location of the translamellae, as well as in the amount of arching of the dorsosejugal suture. In two additional broken specimens the rostral and lamellar hairs are distinctly feather-like. Additional collection and studies are needed to show if these differences warrant the description of an additional species.

ARTIFICIAL KEY TO KNOWN GENERA

head; anal aperture with nearly parallel sides

Topalia Balogh and Csiszar, 1963

REFERENCES

- Balogh, J. 1961. Identification keys of world oribatids (Acari) families and genera. Acta. Zool. 7(3-4):243-344.
- ——. 1965. A synopsis of the world oribatid (Acari) genera. Acta. Zool. 11(1-2):5-99.
- Balogh, J. and J. Csiszar. 1963. The zoological results of Gy. Topal's collectings in South America. Ann. Hist-Nat. Mus. Nat'l. Hung. 55:463-485.
- Grandjean, F. 1929. Quelques nouveaux genera d'Oribatei der Venezuela et de Martinique. Bull. Soc. Zool. 54(5):400-423.
- Hammer, M. 1966. Investigations on the oribatid fauna of New Zealand. Pt. I. Biol. Skr. Dan. Vid. Selsk. 15(2):3-108.